

Technical University of Mombasa

Faculty of Applied and Health Sciences

DEPARTMENT OF PURE AND APPLIED SCIENCES

DIPLOMA IN SCIENCE LABORATORY TECHNOLOGY (DSLT 10S)

ABT 2305: HUMAN ANATOMY & PHYSIOLOGY

SPECIAL/SUPPLEMENTARY: EXAMINATIONS

SERIES: JULY 2013

TIME: 2 HOURS

INSTRUCTIONS:

You should have the following for this paper

- Answer booklet

This paper consists of *FIVE* questions.

Answer Question **ONE** (compulsory) and any other **TWO** questions

This paper consists of 2 PRINTED pages

Question ONE

a)	Define the following terms (i) Digestion (ii) Homestasis (iii) Thermoregulation Outling functions of the following call organalles	(2marks) (2marks) (2marks)
U)	Outline functions of the following cell organelles (i) Mitochondria (ii) Lysosomes (iii) Golgi apperatures (iv) Smooth Endoplasmic reticulum (v) Ribosomes	(1mark) (1mark) (1mark) (1mark) (1mark)
d) e)	Describe the nephrone of mammals Explain components of homestatic mechanism Describe the structure of small intestines. Outline characteristics of an electrical synapse.	(5marks) (5marks) (5marks) (4marks)
Question TWO		
	Discuss gaseous exchange at the respiratory surface. Outline classification of neurons.	(10marks) (5marks)
Question THREE		
	Discus mechanism of neuromascular Transmission in a chemical synapse. Outline protein digestion in the small intestines	(10marks) (5marks)
Question FOUR		
Discus	s physiological mechanism of temperature regulation in mammals	(15marks)
Question FIVE		
	Discuss white blood cells as formed components of blood. State type of synapses State functions of the livers	(10marks) (2marks) (3marks)